

CLAIMS :

1. A device suitable for effecting instant pain relief on pain-spasm-pain neurological reflex cycles that cause pain and functional disability in muscles suffering from acute and chronic soft tissue disorders, said device comprising maps for locating golgi tendons on muscles of the human body, a tensiometric instrument (8) capable of measuring and transmitting pressure values and means for displaying the said values;
characterized in that the device further comprises:
a stimulator tip (1), which is suitable for applying local pressure to golgi tendon receptors, and which is attached to said tensiometric instrument (8),
an indication means (3) suitable for enabling the patient to inform the device of actual golgi tendon pain pressure threshold upon feeling associated pain; and
a vibrator tip (1) and means (9) for actuating said vibrator tip for applying vibration onto the treatment area.
2. A neuromuscular diagnosis and treatment device as set forth in Claim 1 wherein the device further comprises electronic input means (4) for indicating to the system the identification of GT points under examination.
3. A neuromuscular diagnosis and treatment device as set forth in Claim 2 wherein the device further comprises a memory medium (5) on which GT points and GT inhibition pressure thresholds corresponding to GT pain pressure thresholds are stored.
4. A neuromuscular diagnosis and treatment device as set forth in Claim 3, wherein the device further comprises a processor (10) suitable for processing the input data, which includes at least the identification of a GT point and GT inhibition thresholds corresponding to GT pain pressure thresholds, -and subsequently determining and displaying by means of a display (6, 7) the GT inhibition pressure threshold.
5. A neuromuscular diagnosis and treatment device as set forth in Claim 3 wherein the device comprises an electronic interphase which converts the data

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obtained from said tensiometric instrument (8) and the indication means (3) to a format known by the computer and which transmits the same to a computer (4).

6. A neuromuscular diagnosis and treatment device as set forth in Claim 5 wherein the device further comprises a memory medium (5) on which algometric maps of the human body are stored.

7. A neuromuscular diagnosis and treatment device as set forth in any of the preceding claims wherein said stimulator tip (1) has a spherical end of 6 to 16 mm in diameter.

8. A neuromuscular diagnosis and treatment device as set forth in any of the preceding claims wherein the device is used for applying mechanical pressure on golgi tendon receptors beneath the human skin.

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